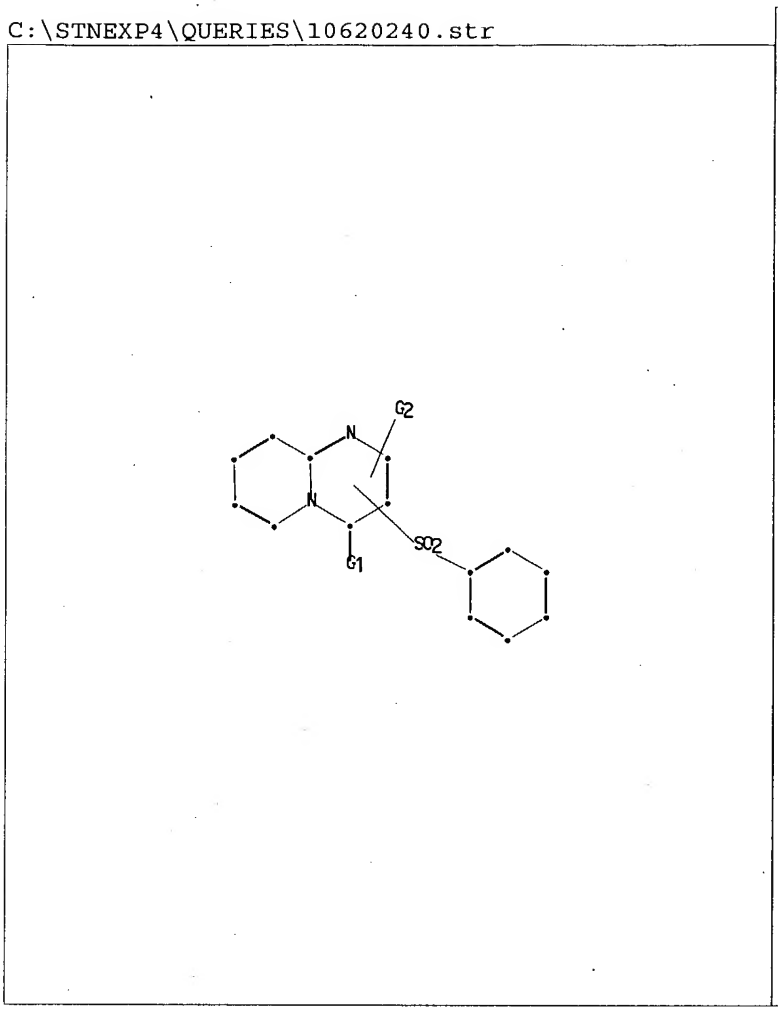
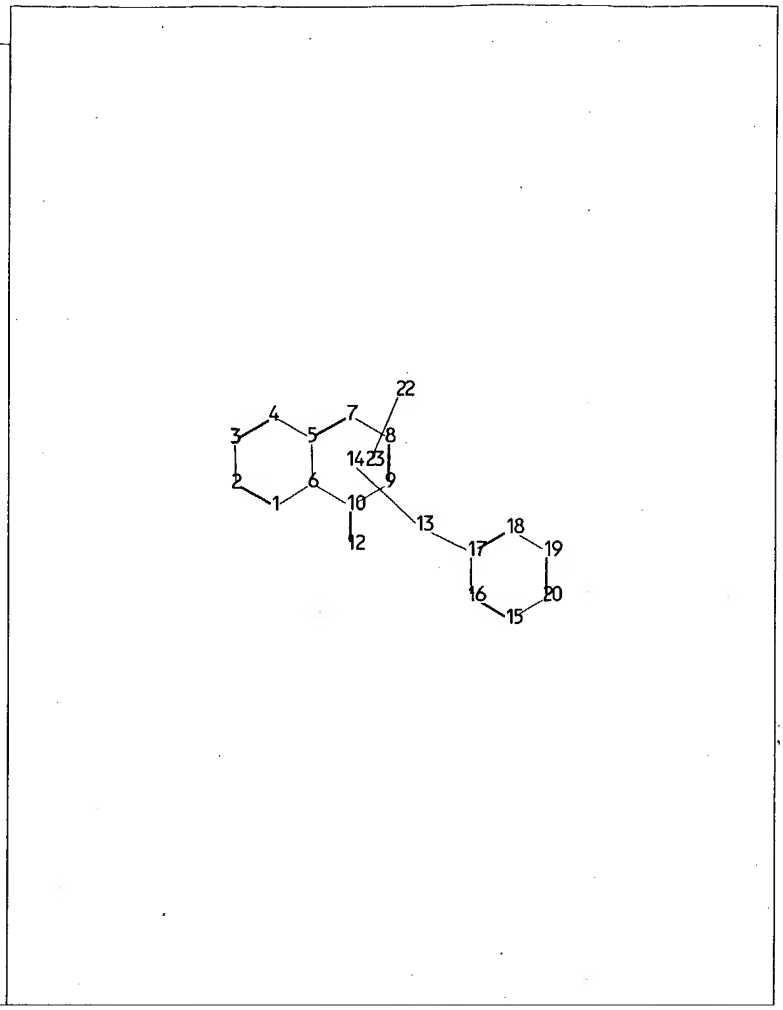
L Number	Hits	Search Text	DB	Time stamp
1	1328	((544/250) or (544/252) or (544/282) or (514/259.4) or (514/259.41) or (514/267)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/04 11:53

C:\STNEXP4\QUERIES\10620240.str





chain nodes :
12 13 22
ring nodes :
1 2 3 4 5 6 7 8 9 10 15 16 17 18 19 20
chain bonds :
10-12 13-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 15-16 15-20 16-17 17-18 18-19
19-20
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 10-12
exact bonds :
13-17
normalized bonds :
15-16 15-20 16-17 17-18 18-19 19-20

G1:O,N

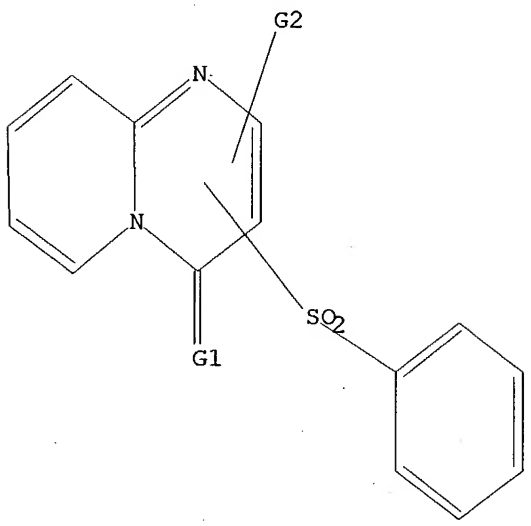
G2:O,S,N,SO2

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:CLASS
13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 22:CLASS
23:CLASS

=>
Uploading 10620240.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,N

G2 O,S,N,SO2

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 16:17:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 498 TO 1302
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 sss ful
FULL SEARCH INITIATED 16:17:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 934 TO ITERATE

100.0% PROCESSED 934 ITERATIONS 45 ANSWERS
SEARCH TIME: 00.00.01

L3 45 SEA SSS FUL L1

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=> s l3
L4              2 L3

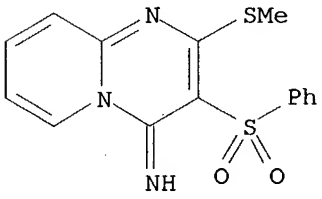
=> d l4 1-2 bib,ab,hitstr
```

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:80350 CAPLUS
TI Preparation of pyridopyrimidines as 5-HT6 antagonists
IN Wu, Yong-jin; Hu, Shuanghua; Scola, Paul M.; Huang, Yazhong; Grant-Young, Katharine A.
PA USA
SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004019064	A1	20040129	US 2003-620240	20030715
PRAI US 2002-398929P	P	20020726		

AB The title compds. [I; R1 = (un)substituted naphthyl, Ph; R2 = 5-methylpyridin-2-yl, alkyl, hydroxyalkyl; R3 = H, halo, alkyl, benzyloxy; R4 = H, alkyl; R3 and R4 together, optionally form a 5-6 membered aryl having 0-2 heteroatoms; R5 = H, halo, alkyl, CH2Ph, COR8; X = NR6, O, SOm; Y = NR7, O; m = 0-2; R6 = H, alkyl; R7 = H, alkyl, CO(alkyl); R8 = alkoxy, (un)substituted NH2, OH] which have a binding affinity for the human 5-HT6 receptor and, therefore, are useful in treating disorders responsive to antagonism of the 5-HT6 receptor such as psychosis, schizophrenia, manic depression, depression, neurol. disorder, memory disorder, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease and Huntington's chorea, were prepd. Prepn. of 35 compds. I is described. The compds. I were tested for binding at the 5-HT6 receptor. E.g., I [R1 = 4-ClC6H4; R2 = Me; R3-R5 = H; X = S; Y = NH] showed IC50 of <20 nM against 5-Ht6 binding. Pharmaceutical compn. comprising the compd. I is claimed.

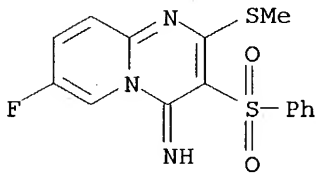
IT **614732-18-2P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of pyridopyrimidines as 5-HT6 antagonists)
RN 614732-18-2 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)-, (4E)- (9CI) (CA INDEX NAME)



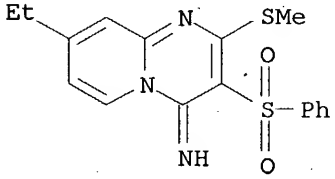
IT **613674-38-7P 613674-40-1P 613674-42-3P**
613674-44-5P 613674-46-7P 651310-61-1P
651310-62-2P 651310-63-3P 651310-64-4P
651310-65-5P 651310-66-6P 651310-67-7P
651310-68-8P 651310-69-9P 651310-70-2P
651310-71-3P 651310-72-4P 651310-73-5P
651310-74-6P 651310-75-7P 651310-76-8P
651310-77-9P 651310-78-0P 651310-79-1P
651310-80-4P 651310-81-5P 651310-82-6P

651310-83-7P 651310-84-8P 651310-85-9P
651310-87-1P 651310-88-2P 651310-89-3P
651310-91-7P 651310-93-9P 651310-94-0P
651310-95-1P 651310-96-2P 651310-97-3P
651310-98-4P 651310-99-5P 651311-00-1P
651311-01-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridopyrimidines as 5-HT6 antagonists)

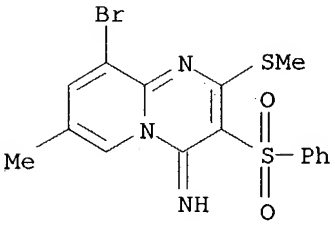
RN 613674-38-7 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 7-fluoro-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



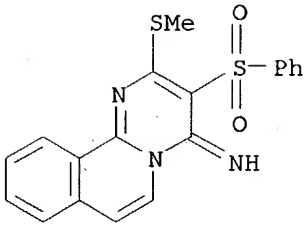
RN 613674-40-1 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 8-ethyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



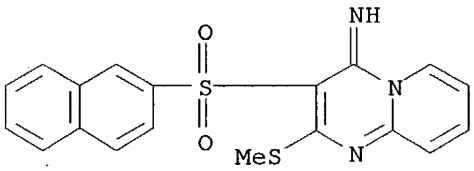
RN 613674-42-3 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 9-bromo-7-methyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



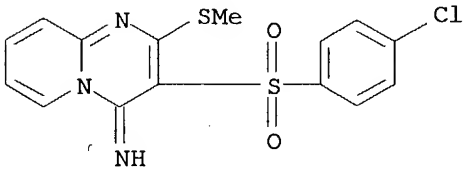
RN 613674-44-5 CAPLUS
CN 4H-Pyrimido[2,1-a]isoquinolin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



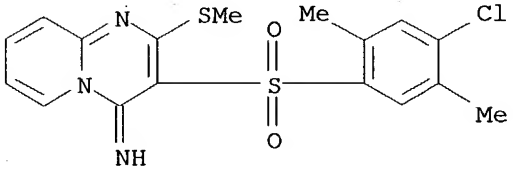
RN 613674-46-7 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(2-naphthalenylsulfonyl)- (9CI) (CA INDEX NAME)



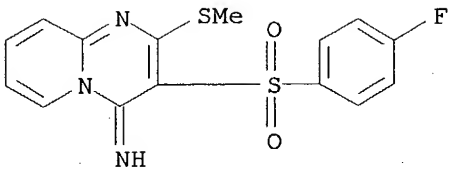
RN 651310-61-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



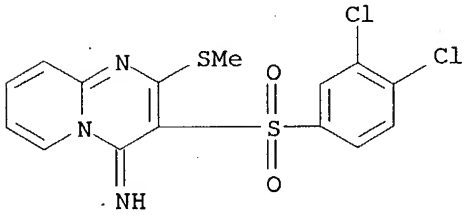
RN 651310-62-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



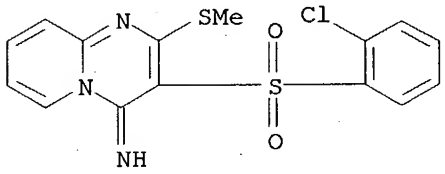
RN 651310-63-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



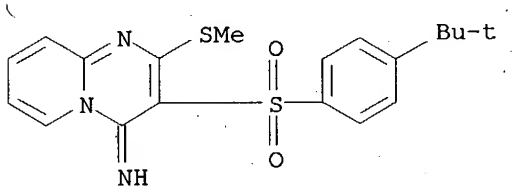
RN 651310-64-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



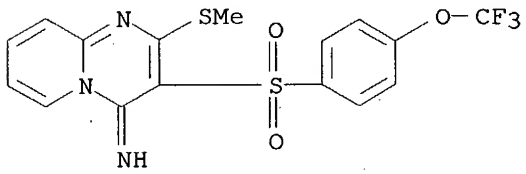
RN 651310-65-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



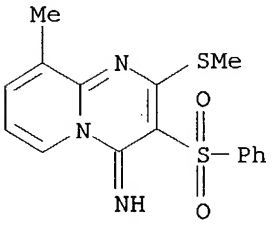
RN 651310-66-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



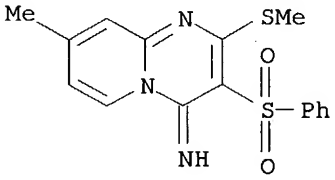
RN 651310-67-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



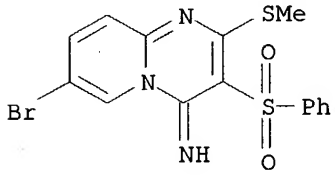
RN 651310-68-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



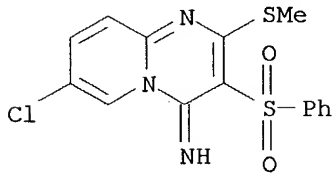
RN 651310-69-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



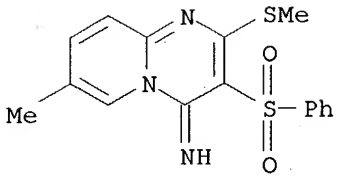
RN 651310-70-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 651310-71-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 651310-72-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 651310-73-5 CAPLUS
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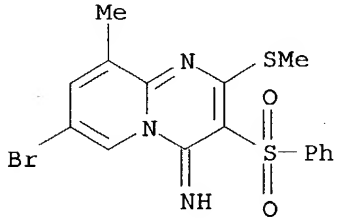
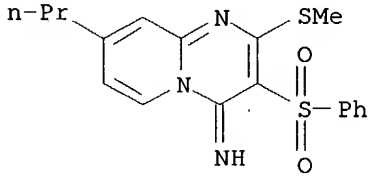
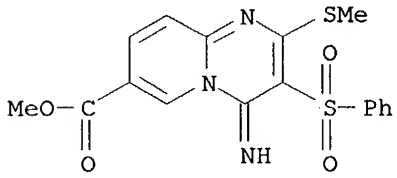


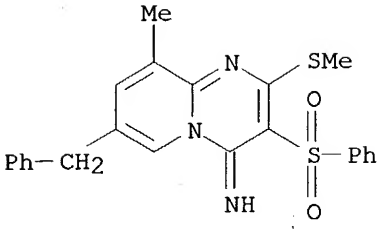
RN 651310-74-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



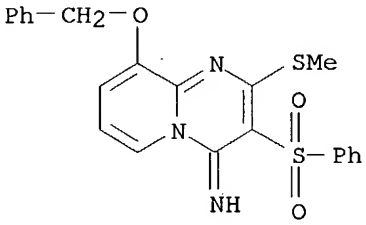
RN 651310-75-7 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidine-7-carboxylic acid, 4-imino-2-(methylthio)-3-(phenylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 651310-76-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 651310-77-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 651310-78-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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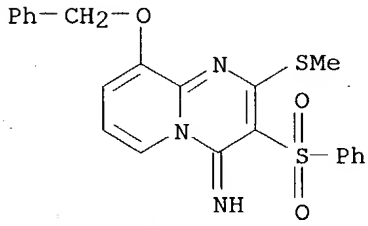
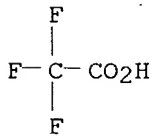
CRN 651310-77-9
CMF C22 H19 N3 O3 S2



CM 2

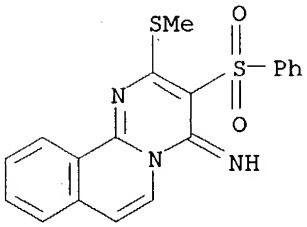
CRN 76-05-1
CMF C2 H F3 O2



RN 651310-79-1 CAPLUS
CN 4H-Pyrimido[2,1-a]isoquinolin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

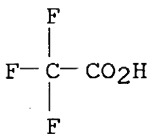
CM 1

CRN 613674-44-5
CMF C19 H15 N3 O2 S2

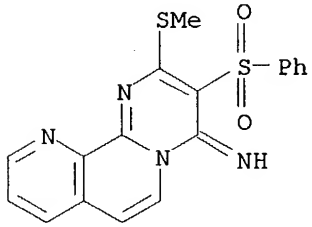


CM 2

CRN 76-05-1
CMF C2 H F3 O2



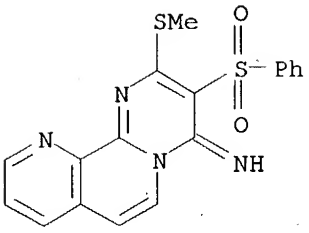
RN 651310-80-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 651310-81-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

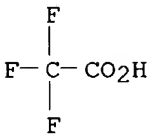
CM 1

CRN 651310-80-4
CMF C18 H14 N4 O2 S2

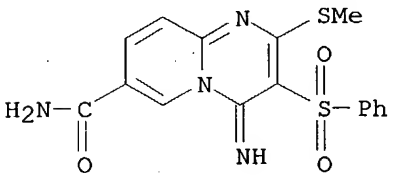


CM 2

CRN 76-05-1
CMF C2 H F3 O2



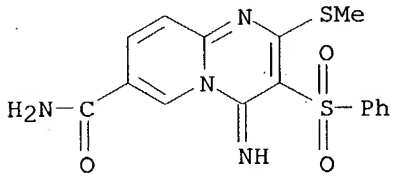
RN 651310-82-6 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidine-7-carboxamide, 4-imino-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 651310-83-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

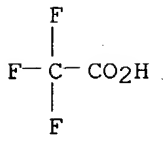
CM 1

CRN 651310-82-6
CMF C16 H14 N4 O3 S2

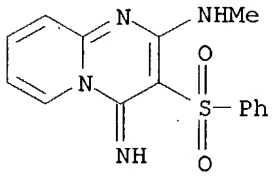


CM 2

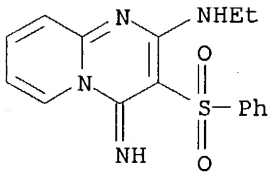
CRN 76-05-1
CMF C2 H F3 O2



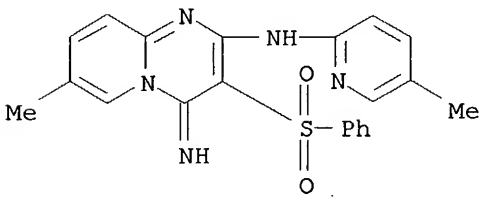
RN 651310-84-8 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, 4-imino-N-methyl-3-(phenylsulfonyl)-(9CI) (CA INDEX NAME)



RN 651310-85-9 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, N-ethyl-4-imino-3-(phenylsulfonyl)-(9CI) (CA INDEX NAME)



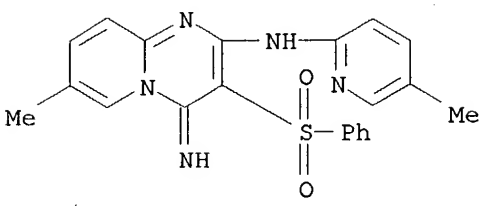
RN 651310-87-1 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, 4-imino-7-methyl-N-(5-methyl-2-pyridinyl)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 651310-88-2 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, 4-imino-7-methyl-N-(5-methyl-2-pyridinyl)-3-(phenylsulfonyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

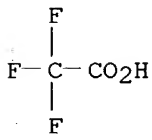
CM 1

CRN 651310-87-1
CMF C21 H19 N5 O2 S

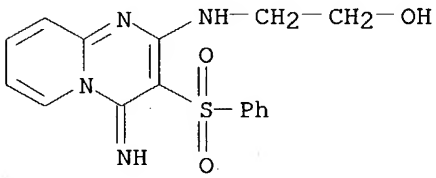


CM 2

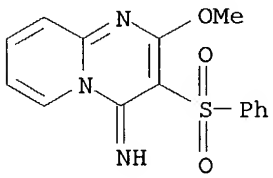
CRN 76-05-1
CMF C2 H F3 O2



RN 651310-89-3 CAPLUS
CN Ethanol, 2-[[4-imino-3-(phenylsulfonyl)-4H-pyrido[1,2-a]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 651310-91-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

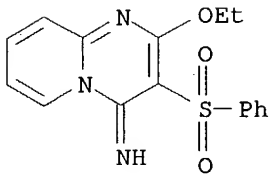


RN 651310-93-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

CM 1

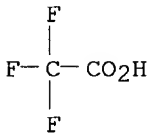
CRN 651310-92-8

CMF C16 H15 N3 O3 S

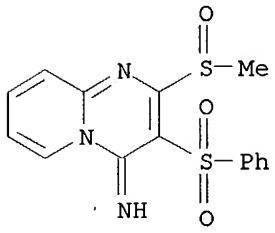


CM 2

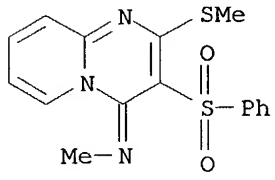
CRN 76-05-1
CMF C2 H F3 O2



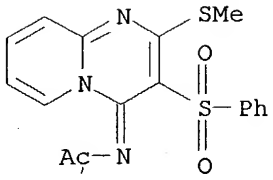
RN 651310-94-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



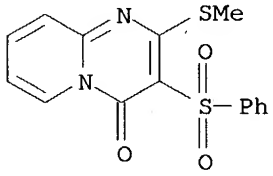
RN 651310-95-1 CAPLUS
CN Methanamine, N-[2-(methylthio)-3-(phenylsulfonyl)-4H-pyrido[1,2-a]pyrimidin-4-ylidene]- (9CI) (CA INDEX NAME)



RN 651310-96-2 CAPLUS
CN Acetamide, N-[2-(methylthio)-3-(phenylsulfonyl)-4H-pyrido[1,2-a]pyrimidin-4-ylidene]- (9CI) (CA INDEX NAME)



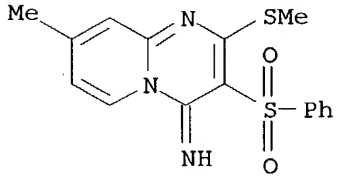
RN 651310-97-3 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 651310-98-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

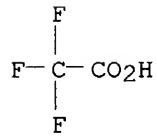
CM 1

CRN 651310-69-9
CMF C16 H15 N3 O2 S2



CM 2

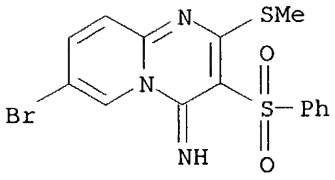
CRN 76-05-1
CMF C2 H F3 O2



RN 651310-99-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

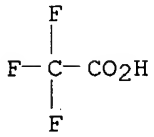
CM 1

CRN 651310-70-2
CMF C15 H12 Br N3 O2 S2



CM 2

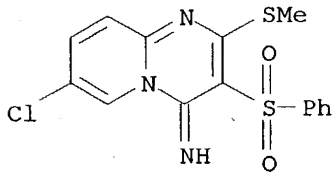
CRN 76-05-1
CMF C2 H F3 O2



RN 651311-00-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

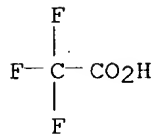
CM 1

CRN 651310-71-3
CMF C15 H12 Cl N3 O2 S2



CM 2

CRN 76-05-1
CMF C2 H F3 O2

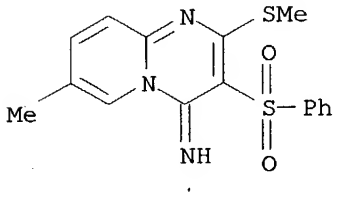


RN 651311-01-2 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

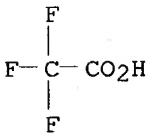
CM 1

CRN 651310-72-4
CMF C16 H15 N3 O2 S2

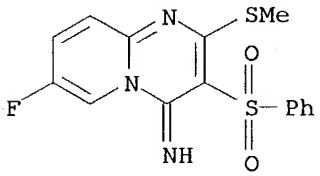


CM 2

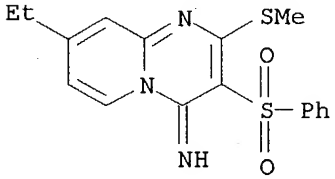
CRN 76-05-1
CMF C2 H F3 O2



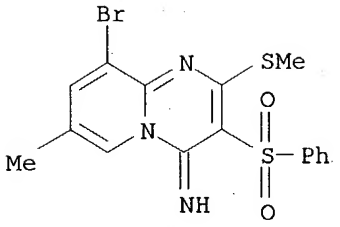
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:797156 CAPLUS
DN 139:323484
TI Identification of a Potent and Selective 5-HT6 Antagonist: One-Step Synthesis of (E)-3-(Benzenesulfonyl)-2-(methylsulfanyl)pyrido[1,2-a]pyrimidin-4-ylidenamine from 2-(Benzenesulfonyl)-3,3-bis(methylsulfanyl)acrylonitrile
AU Wu, Yong-Jin; He, Huan; Hu, Shuanghua; Huang, Yazhong; Scola, Paul M.; Grant-Young, Katharine; Bertekap, Robert L.; Wu, Dedong; Gao, Qi; Li, Yi; Klakouski, Cheryl; Westphal, Ryan S.
CS Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT, 06492, USA
SO Journal of Medicinal Chemistry (2003), 46(23), 4834-4837
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
AB A series of 2-(methylsulfenyl)pyrido[1,2-a]pyrimidin-4-ylidenamines, e.g. I (R1 = n-Pr, Ph, 2-naphthyl; R2 = H, F, Me; R3 = H, Et; R4 = H, Br), was synthesized and I [R1 = Ph, R2 = R3 = R4 = H; (II)] was found to be a potent and selective 5-HT6 antagonist. A one-step synthesis of II is described.
IT **613674-38-7P 613674-40-1P 613674-42-3P**
613674-44-5P 613674-46-7P 614732-18-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of sulfonyl-substituted (imino)(methylsulfenyl)pyridopyrimidines as selective 5-HT6 antagonists)
RN 613674-38-7 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 7-fluoro-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



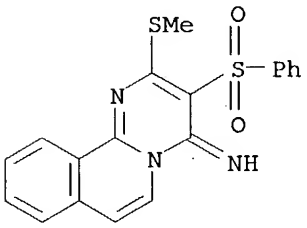
RN 613674-40-1 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 8-ethyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



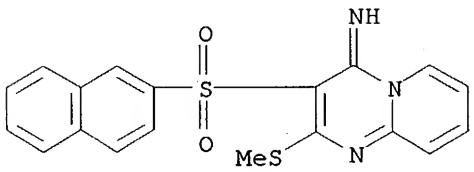
RN 613674-42-3 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 9-bromo-7-methyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



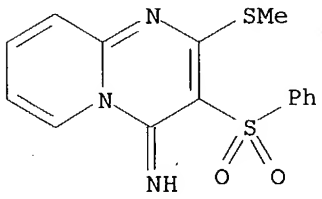
RN 613674-44-5 CAPLUS
CN 4H-Pyrimido[2,1-a]isoquinolin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 613674-46-7 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(2-naphthalenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 614732-18-2 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)-, (4E)- (9CI) (CA INDEX NAME)



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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     FILE 'REGISTRY' ENTERED AT 16:16:40 ON 26 FEB 2004
L1                STRUCTURE UPLOADED
L2              2 S L1 SSS SAM
L3             45 S L1 SSS FUL

     FILE 'CAPLUS' ENTERED AT 16:17:40 ON 26 FEB 2004
L4              2 S L3

     FILE 'CAOLD' ENTERED AT 16:18:13 ON 26 FEB 2004

=> s l3
L5              0 L3

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.42     166.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -1.39

STN INTERNATIONAL LOGOFF AT 16:18:24 ON 26 FEB 2004
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